

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-7 (Cancelled)

Claim 8. (Currently amended) ~~A vaccine vector comprising a nucleic acid sequence which encodes:~~

- (a) ~~SEQ ID No: 2; or~~
- (b) ~~a fragment comprising at least 12 consecutive amino acids from SEQ ID No:2, wherein the fragment defines an immunogenic epitope of Chlamydia;~~

A vaccine vector comprising an isolated nucleic acid molecule which encodes SEQ ID No: 2, wherein the nucleic acid molecule is operably linked to a promoter functional in a mammalian cell.

Claim 9. (Currently amended) The vaccine vector of claim 39 8 further comprising another nucleic acid encoding an additional polypeptide which enhances the immune response to the polypeptide having SEQ ID No: 2, wherein the additional polypeptide is a Chlamydia polypeptide.

Claim 10 (Cancelled)

Claim 11. (Previously presented): A vaccine comprising the vaccine vector according to claim 8 and a pharmaceutically acceptable carrier.

Claims 12-39 (Canceled)

Claim 40 (Previously presented): The vaccine of claim 8 wherein the promoter is a viral promoter.

Claim 41 (Previously presented): The vaccine of claim 9 wherein the promoter is a viral promoter.

Claim 42 (Previously presented): The vaccine of claim 11 wherein the promoter is a viral promoter.

Claim 43 (Canceled)

Claim 44 (Previously presented): The vaccine vector of claim 8 wherein the promoter is cytomegalovirus (CMV) promoter.

Claim 45 (Previously presented): The vaccine of claim 9 wherein the promoter is cytomegalovirus (CMV) promoter.

Claim 46 (Previously presented): The vaccine of claim 11 wherein the promoter is cytomegalovirus (CMV) promoter.

Claim 47 (Canceled)

Claim 48 (New): The vaccine vector of claim 8 wherein the nucleotide sequence of the nucleic acid molecule which encodes SEQ ID No:2 is SEQ ID No:1.

Claim 49 (New): The vaccine vector of claim 9 wherein the nucleotide sequence of the nucleic acid molecule which encodes SEQ ID No:2 is SEQ ID No:1.

Claim 50 (New): The vaccine vector of claim 11 wherein the nucleotide sequence of the nucleic acid molecule which encodes SEQ ID No:2 is SEQ ID No:1.

Claim 51 (New): The vaccine vector of claim 40 wherein the nucleotide sequence of the nucleic acid molecule which encodes SEQ ID No:2 is SEQ ID No:1.

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Claim 52 (New): The vaccine vector of claim 44 wherein the nucleotide sequence of the nucleic acid molecule which encodes SEQ ID No:2 is SEQ ID No:1.